DiGidot TRxB

Receiver module

Data sheet DiGidot TRxB V.20190520

www.digidot.eu

© DiGidot Technologies B.V. 2019, E&OA.

Extend SPI data up to 250 meters
Compact size
Wide voltage range (5-48 Vdc)
Easy to connect
Solder directly to LED strips
Reliable & easy to use

Introduction

SPI protocols are sensitive to data distortion and often only work safely up to 2 meters (6.5 ft) cable distance. The DiGidot TRxB is a small size receiver module that can be used in combination with DiGidot C4 and a DiGidot Transmitter module. It allows sensitive SPI protocols to be send over huge distances, up to 250 meters. Any single wire SPI protocol (Data only) that can be outputted from a DiGidot C4 can be received. The input can be connected easily with a RJ45 connector or it can be soldered on the underside. The output can directly be soldered to most industry standard SPI controlled LED strips.

Product images
Wiring scheme

Technical notes

- All Grounds, from the DiGidot C4/Transmitter, power supplies and the TRxB must be connected.
- Ground output wire from TRxB must be equal in length as the Data wire.
- Be careful with heat guns when applying heat shrink, please cover complete module.

Specifications

Supply voltage 5-48 Vdc
SPI type Data only protocols
Input Solder pads + RJ45 bus
RJ45 Pinout 1 (orange/white) = Data +, 2 (orange) = Data -, 7 & 8 (brown white/brown = Ground
Output Solder pads + screw terminal (optional)
Ingress protection IP00 (unprotected, indoor use only)
Dimensions 43.8 x 15.8 x 15.3 mm
Weight 6 gr
Short circuit protection No
Over voltage protection Yes up to 60 Vdc
Operating Temperature 0 to 50°C / 32 to 122°F
Max. ambient temperature 40°C / 104°F
Storage temperature -20 to 50°C / -4 to 122°F
Max. operating relative humidity 90% (indoor use only)